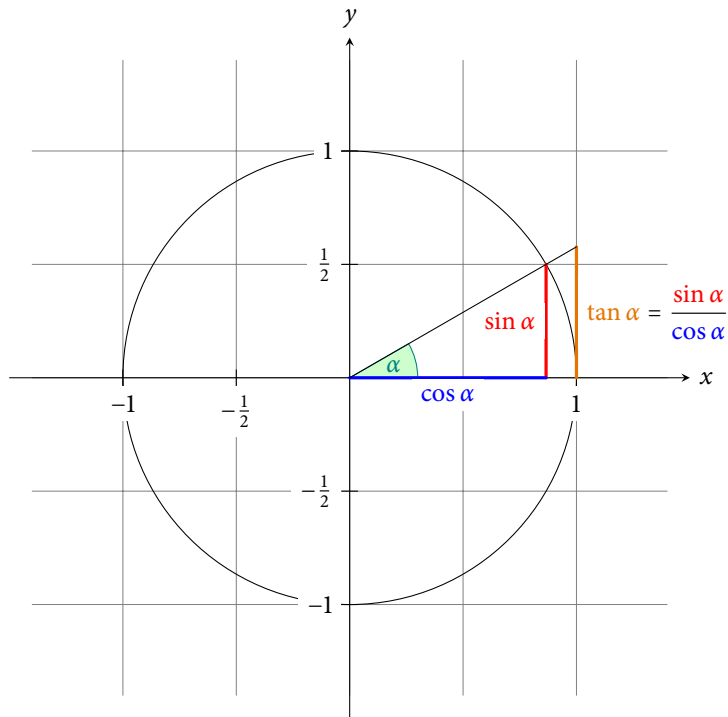


1 A TRIGONOMETRY EXAMPLE



The **angle** α is 30° in the example ($\pi/6$ in radians). The **sine of** α , which is the height of the red line, is

$$\sin \alpha = \frac{1}{2}.$$

By the Theorem of Pythagoras we have $\cos^2 \alpha + \sin^2 \alpha = 1$. Thus the length of the blue line, which is the **cosine of** α , must be

$$\cos \alpha = \sqrt{1 - \frac{1}{4}} = \frac{1}{2}\sqrt{3}.$$

This shows that **tan** α , which is the height of the orange line, is

$$\tan \alpha = \frac{\sin \alpha}{\cos \alpha} = \frac{1}{\sqrt{3}}.$$

2 PETRI-NETS

